

CLAIMS

I/We claim:

- [c1] 1. A memory bank having words that are addressable by addresses and having multiple sections, the memory bank comprising:
- a plurality of sections, each section representing a subdivision of a word of memory, each section having a row enable line for each row of the memory and a column enable line for each column of the memory for enabling access to a subdivision of a word of memory, each section having a section enable line for enabling access to that section;
 - for each row of each section, row enabler logic that enables the row enable line for that row of that section only when the section enable line for that section is enabled; and
 - for each section, column enabler logic that enables a column enable line for that section only when the section enable line for that section is enabled.
- [c2] 2. The memory bank of claim 1 wherein the memory bank is part of a multiport memory device and wherein the section enable lines are enabled based on the accessing port.
- [c3] 3. The memory bank of claim 1 wherein different rows of different sections can be simultaneously accessed to satisfy different memory access requests.
- [c4] 4. The memory bank of claim 1 wherein row and column address enable signals are buffered to accommodate row and column latencies.

[c12] 12. The memory bank of claim 7 wherein different rows of different sections can be simultaneously accessed to satisfy different memory access requests.

[c13] 13. The memory bank of claim 7 including configuration information storage for selectively enabling sections.

[c14] 14. The memory bank of claim 13 wherein the memory bank is part of a multiport memory device and the selective enabling of sections is on a port-by-port basis.

Approved for Release